

Specifications for Plastic Optical Fiber

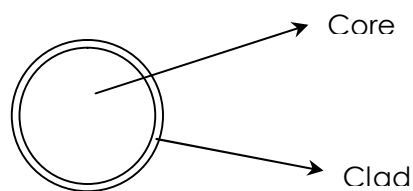
DB-500(MY)

Issued on : April 1, 2013

Issued by : Asahi Kasei E-Materials Corporation
Plastic Optical Fiber
Marketing & Development Gr

1, STRUCTURE

ITEM	UNIT	Specifications
Core Material		PMMA
Clad Material		Fluorinated Polymer
Fiber Diameter	μm	500 ± 23
NA		0.5



2, PROPERTIES

ITEM	UNIT	Specifications	
Application Temperature Range	°C	-55 ~ 70	
Attenuation	dB/m	≤ 0.16	*1
Tensile Strength at Break Point	N	≥ 19	*2
Minimum Bending Radius	mm	10	*3

Sample conditions

Temperature: T = 23°C
 Humidity: RH = 50%
 Storage time: t = 200h

*1 : Monochromatic light at 650nm, LNA = 0.15, 52-2m Cut-back Method

*2 : Interval between grippers = 100 mm, Tensile Speed = 100mm/min

*3 : L = 2m, 90 degree bending at the middle of fiber

Light Source : LED (Peak Wavelength = 657nm)

Transmission Rate ≥ 90%